

ABSTRACT

An integrated process for producing high value products, including for example distillate fuel, from syngas is disclosed. The integrated process of the present invention produces high value products from a Fischer Tropsch with minimal production of low value products, including methane. In a process of the present invention, syngas is reacted under low temperature Fischer-Tropsch reaction conditions to provide a hydrocarbon product stream comprising substantially waxy products. The waxy products are subjected to an olefin-selective paraffin cracking process, preferably in a Paragon reactor to form olefins. The resulting olefins are then subjected to oligomerization conditions to form iso-olefins. In the processes of the present invention, the hydrocarbon product stream from the Fischer Tropsch reaction comprises desirable low levels of methane, preferably below 10%.